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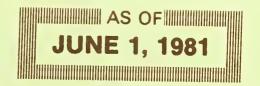
Water Supply Outlook For Idaho





Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES



TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Mast of the usable water in western states ariginates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates af snowmelt runaff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more af the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mauntain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same lacation near the same dates each year.

Snow surveys are made manthly or semi-manthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will pravide a continuous record of snow water and ather parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Snow surveyors making special measurements of the snowpack near Mt. St. Helens Volcano, Washington, April 1980.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602
Idaho Montana Nevada Oregon Utah Washington	Room 345, 304 N. 8th. St., Boise, Idaho 83702 P. O. Box 98, Bozeman, Montana 59715 P. O. Box 4850, Reno, Nevada 89505 1220 S. W. Third Ave., Portland, Oregon 97204 4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138 360 U. S. Court House, Spokane, Washington 99201

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON. D C

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STATE CONSERVATIONIST SOIL CONSERVATION SERVICE BOISE, IDAHO

In Cooperation with

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Report prepared by

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> SOIL CONSERVATION SERVICE SNOW SURVEY SECTION ROOM 345, 304 N. 8th. ST. BOISE, IDAHO 83702



WATER SUPPLY OUTLOOK for IDAHO







GENERAL SUMMARY FOR JUNE 1, 1981

The water supply for Idaho is forecast as good for those areas having reservoir facilities. All major reservoirs except those south of the Snake River are full or have a surcharge. Streamflow during the summer and fall is expected to drop sharply and be below normal due to the deficient snow pack and accelerated spring melt. Water users obtaining supplies direct from streamflow, especially on small streams, can expect shortages to occur during the latter part of the season.

Snow course measurements near June 1, indicate a well below normal snowpack for this time of year. This is a continuation of the deficient conditions experienced during the entire winter. In general, well above average rainfall, even at high elevations, accelerated the snow melt and resulted in above normal runoff during the month of May.

Valley precipitation during May, as reported by the U.S. Weather Service, continued a wet spring after a dryer than normal winter. Storms during the last half of the month pushed most stations' precipitation above normal for the month. Twin Falls reported a low of 67 percent of average while Ashton received 304 percent of normal. Temperatures across Idaho averaged just below normal for May.

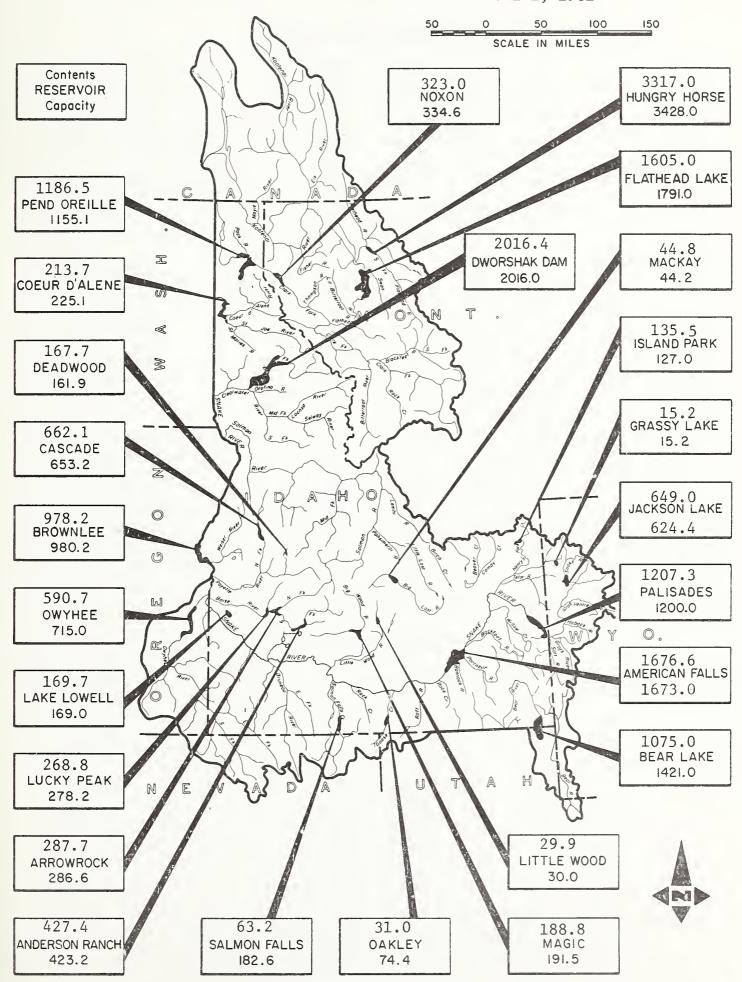
Due to below normal runoff expected during 1981, water users should manage their supplies as efficiently as possible to provide carryover water in the reservoirs for 1982. A below normal snowpack during the winter of 1981-82 would result in severe shortages next year unless reserves are provided for in the reservoirs.



RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JUNE 1, 1981





SNOW		THIS YEAR		PAST R	ECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average 6

	JUNE 1, 1	981 MEASU	JREMENTS			
Atlanta Summit Big Creek Summit	7600 6580	•	14 23	6.8 10.5	21.4 22.8	20.5*
Breezy Saddle	5010	•	0	0.0	22.0	18.6
Brundage Mountain	7560	· · · · · · · · · · · · · · · · · · ·	38	18.2	31.8	36.9*
Coolwater Mountain	6040	-	13	5.2		16.4*
Crater Meadows	5960	5/29	15	8.0		32.0*
Crawford Ranger Station	4860	5/28	0	0.0	0.0	
Deadwood Summit	6860	•	28	14.8		
Elk Butte	5550		0	0.0		10.7*
Freds Mountain Wyo		•	13	4.8	T	
Galena	7440	•	0	0.0	0.0	2.6*
Galena Summit	8780	•	23	10.3	13.0	13.9*
Goat Lake Graham Ranch	6500 6270	•	42	17.1	0.0	36.8*
Granite Peak	6000	•	0 25	0.0 9.4	0.0	 31.5*
Hemlock Butte	5810	•	8	3.3		30.9*
Jackson Peak	7070	-	9	4.4		11.9*
Lake Fork	5290	•	0	0.0	0.0	
Lookout	5140	•	0	0.0	0.0	15.0*
Lost Lake	6110	5/29	38	16.2		46.4*
Moores Creek Summit	6100	5/29	0	0.0	12.6	12.5
Pine Creek Pass	6810	5/29	0	0.0	0.0	
Schweitzer Ridge	6200	•	26	13.2	5.4	
Secesh Summit	6520	5/28	0	0.0	11.2	
Shanghai Summit	4570	5/29	0	0.0		
Squaw Meadow	5900	•	0	0.0	10.4	15.3*
State Line Trinity Mountain	6660 7770	5/29 5/29	0	0.0	0.0	 25 7÷
Vienna Mine	8960	5/29	19 38	9.5 17.5	29.7 30.7	25.7* 29.4*
vienna nine	0900	3/29	30	17.5	30.7	23.40
	SUPPLEMEN'	TAL MEASU	REMENTS			
DECEMBER 15, 1980						
Island Park	6290	12/16	19	4.3	grap sing	
JANUARY 15, 1981						
Bad Bear	4940	1/19	12	3.7	10.0	
Bogus Basin	6340	•	16	4.7		
Bogus Basin Road	5540	1/19	0	0.0		
Clooked Fork	3610	•	6	2.0		
Fish Lake Airstrip	5650	•	23	8.2		
Galena	7440	•	27	8.2		
Galena Summit	8780	1/14	29	8.8		



SNOW				THIS YEAR		PAST R	ECORD
DRAINAGE BASIN and/or SNOW COURSE		Date	Snow Depth	Water Content	Water Content (inches)		
NAM		Elevation	of Survey	(Inches)	(Inches)	Last Year	Average 6

SUPPLEMI	ENTAL MEASU	REMENTS	(Conti	nued)		
Hemlock Butte	5810	1/15	24	7.7	distant distant	000 000
Lolo Pass	5240	1/14	20	6.4		dirtyn distyn
Moores Creek Summit	6100	1/19	28	9.6	20.7	
Savage Pass	6170	1/14	27	8.9		
Shanghai Summit	4570	1/15	0	0.0	man 453p	
FEBRUARY 15, 1981						
Atlanta Summit	7600	2/13	44	13.6	25.7	COD 600
Atlanta Townsite	5280	2/13	18	5.3		-
Bad Bear	4940	2/17	19	5.8	12.3	
Bogus Basin	6340	2/17	29	7.5		easy error
Bogus Basin Road	5540	2/17	0	0.0		
Crooked Fork	3610	2/17	13	4.8	7.2	
Fish Lake Airstrip	5650	2/13	50	11.6	22.8	
Galena	7440	2/12	39	11.1		
Galena Summit	8780	2/12	44	12.4		
Graham Guard Station	5690	2/13	26	8.2	12.5	
Hemlock Butte	5810	2/13	55	14.4	25.6	
Jackson Peak	7070	2/13	46	14.7	24.8	man was
Lolo Pass	5240	2/17	44	10.8	21.0	-
Moores Creek Summit	6100	2/17	47	14.3	24.5	
Shanghai Summit	4570	2/13	26	4.1	12.4	
Trinity Mountain	7770	2/13	51	16.1	31.6	
Vienna Mine	8960	2/13	53	15.5	29.7	
MARCH 15, 1981						
Above Burke	4100	3/16	20	8.4	12.8	***
Atlanta Summit	7600	3/13	51	17.6	35.2	
Atlanta Townsite	5280	3/18	11	4.2		
Bad Bear	4940	3/16	13	4.3	12.6	-
Banner Summit	7040	3/16	55	18.8		~
Bogus Basin	6340	3/13	28	10.0		
Bogus Basin Road	5540	3/13	0	0.0		
Crooked Fork	3610	3/16	0	0.0	8.5	
Elk Butte	5550	3/18	39	11.7	24.5	
Fish Lake Airstrip	5650	3/17	61	17.1	30.9	
Galena	7440	3/14	37	11.9	18.3	
Galena Summit	8780	3/14	49	16.8	21.4	
Graham Guard Station	5690	3/13	21	8.4	15.3	
Hemlock Butte	5810	3/17	64	18.1	33.4	
Jackson Peak	7070	3/13	52	18.2	34.2	
Lolo Pass	5240	3/16	37	12.8	24.5	
Lookout Pass	5140	3/16	46	17.2	24.8	
Lost Lake	6110	3/18	84	27.2	37.5	



SNOW		THIS YEAR		PAST R	ECORD	
DRAINAGE BASIN and/or SNOW COURSE	Date	Snow Depth	Water Content	Water Content (inches)		
NAME	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average 6

Moores Creek Summit							
Prairie	SUPPLEMENT	TAL MEASU	REMENTS	(Conti	nued)		
Prairie	Moores Creek Summit	6100	3/16	47	15.1	31.3	
Savage Pass			-				
Shanghai Summit 4570 3/17 18 4.2 15.3	— — — — — — — ·						
Sherwin 3200 3/16 0 0.0 6.5	0						
Trinity Mountain 7770 3/13 56 21.3 43.7 Vienna Mine 8960 3/13 60 21.8 39.1 APRIL 15, 1981 Atlanta Summit 7600 4/14 64 21.8 41.1 Bad Bear 4940 4/15 0 0.0 12.7 Bogus Basin 6340 4/15 0 0.0 Crooked Fork 3610 4/14 0 0.0 Crooked Fork 3610 4/15 60 18.2 Fish Lake Airstrip 5650 4/15 60 18.2 Fish Lake Airstrip 5650 4/15 77 23.7 Galena Summit 8780 4/14 38 15.3 20.1 Galena Summit 8780 4/14 59 19.7 27.0 Graham Guard Station 5690 4/14 17 6.5 16.5 Hemlock Butte 5810 4/15 87 27.4 Jackson Peak 7070 4/14 67 23.1 34.8 Lolo Pass 5240 4/15 65 21.2 29.2 Lost Lake 6110 4/15 117 37.5 Moores Creek Summit 6100 4/15 77 20.2 37.6 Fiante Ranger Station 3080 4/15 0 0.0 Frairie 4800 4/15 0 0.0 0 Savage Pass 6170 4/14 68 21.3 Frairie 4800 4/15 0 0.0 0 Frairie 4800 4/14 75 27.4 39.0 MAY 15, 1981 Bogus Basin 6340 5/17 0 0.0 Frairie Meadows 5960 5/18 42 19.5 Trinity Mountain 7770 4/14 74 27.7 50.2 Trinity Mountain 7770 4/14 75 27.4 39.0 MAY 15, 1981	_						
Vienna Mine							
Atlanta Summit 7600 4/14 64 21.8 41.1 Bad Bear 4940 4/15 0 0.0 12.7 Bogus Basin 6340 4/15 42 15.7 Bogus Basin Road 5540 4/15 0 0.0 Crooked Fork 3610 4/14 0 0.0 Elk Butte 5550 4/15 60 18.2 Fish Lake Airstrip 5650 4/15 77 23.7 Galena 7440 4/14 38 15.3 20.1 Galena Summit 8780 4/14 59 19.7 27.0 Graham Guard Station 5690 4/14 17 6.5 16.5 Hemlock Butte 5810 4/15 87 27.4 Jackson Peak 7070 4/14 67 23.1 34.8 Lookout Pass 5140 4/15 65 21.2 29.2 Lost Lake 6110 4/15 65 21.2 29.2 Lost Lake 6110 4/15 117 37.5 Moores Creek Summit 6100 4/15 17 37.5 Prairie 4800 4/15 0 0.0 0.0 Finghai Summit 4570 4/14 68 21.3 Vienna Mine 8960 4/14 77 27.4 39.0 MAY 15, 1981 Bogus Basin Road 5540 5/17 0 0.0 Galena 7440 5/12 0 0.0 MAY 15, 1981 Bogus Basin Road 5540 5/17 0 0.0 Galena 7440 5/12 0 0.0 Galena 7440 5/12 0 0.0 Galena 7440 5/12 0 0.0 Galena 8ummit 8780 5/17 0 0.0 Galena 8ummit 8780 5/18 42 19.5 Elk Butte 5550 5/18 0 0.0 Galena Summit 8780 5/12 38 13.4 16.3 Calena Summit 8780 5/18 41 16.3 Calena Summit 8780 5/18 67 26.5 Moores Creek Summit 6100 5/18 67 26.5 Moores Creek Summit 6100 5/19 6 2.6 22.3							****
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GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

- U. S. Army Engineers
- U. S. Department of Agriculture Forest Service ESCS Crop Reporting Service SEA Agricultural Research
- U. S. Department of Commerce NOAA, National Weather Service
- U. S. Department of the Interior
 Bonneville Power Administration
 Water and Power Resources Service
 Fish and Wildlife Service
 Water Resources Division, Geological Survey
 National Park Service
 Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

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